## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

(Currently Amended) A system comprising:
a chamber configured to house a substrate for processing;
an energy source coupled to the chamber;

a system controller configured to control the introduction of at least one metal precursor gas to a focused ion beam and to control the introduction of the focused ion beam from the energy source; and

a memory coupled to the controller comprising a computer-readable medium having a computer-readable program embodied therein for directing operation of the system, the computer-readable program comprising:

instructions for controlling the energy source and for introducing the metal precursor gas into a focused ion beam which is introduced into the chamber over the substrate in which the metal from the focused ion beam forms at least one metal layer over the substrate; and

instructions for controlling a coherent electromagnetic radiation source applied to a top surface of the at least one layer to heat the at least one layer.

- 2. (Previously Presented) The system of claim 1, wherein the program further comprises instructions for controlling the introduction of a metal precursor gas of one of cobalt, metal carbonyl, molybdenum, platinum, and tungsten.
- 3. (Previously Presented) The system of claim 2, wherein the controller is configured to control and the program further comprises instructions to control a vacuum coupled to the chamber to cause introducing one of cobalt, metal carbonyl, molybdenum, platinum, and tungsten into the focused ion beam in a controlled ratio at a chamber pressure in the range of 10<sup>-5</sup> to 10<sup>-7</sup> torr.
- 4. (Original) The system of claim 1, wherein the focused ion beam heats a discrete area on the layer.

- 5. (Original) The system of claim 1, further comprising a lens coupled to the coherent electromagnetic radiation source to focus the coherent electromagnetic radiation source to a spot size on the at least one layer.
- 6. (Original) The system of claim 5, wherein said lens comprises a 5x lens of numerical aperture approximately 0.15 to focus a spot size of the coherent electromagnetic radiation source in the range of 8 microns to 10 microns in diameter.
- 7. (Original) The system of claim 5, wherein the at least one metal layer formed over the substrate comprises tungsten and the spot size is approximately 10 micrometers in width.
- 8. (Previously Presented) The system of claim 1, wherein the program further comprises instructions for controlling the energy source and for introducing the metal precursor gas into a focused ion beam to form at least one metal layer over the substrate that comprises at least one metal layer line having a thickness in the range of 0.1 microns to 1 micron.
- 9. (Previously Presented) The system of claim 1, wherein the controller is configured to control and the program further comprises instructions to control one of a vacuum, a non-reacting gas source, and a reducing atmosphere source coupled to the chamber to cause one of a vacuum, a non-reacting gas, and a reducing atmosphere in the chamber during the heat.
- 10. (Previously Presented) The system of claim 9, wherein the instructions for controlling a coherent electromagnetic radiation source include instructions to heat the layer sufficiently to remove one of a carbon, gallium, and an oxygen from the layer.
- 11. (Currently Amended) The system of claim 1, wherein the instructions for controlling the introduction of at least two-one metals comprises instructions for controlling introducing at least two of cobalt, metal carbonyl, molybdenum, platinum, and tungsten in a controllable ratio.

- 12. (Previously Presented) The system of claim 1, further comprising a plurality of inlets and program instructions to introduce a plurality of metal precursor gasses, wherein each of the plurality of metal precursor gasses is introduced via a separate inlet and in a controllable ratio.
- 13. (Previously Presented) The system of claim 1, wherein the instructions for controlling a coherent electromagnetic radiation source include instructions to heat the layer sufficiently to re-crystallize a metal component of the at least one metal formed in the at least one layer.
- 14. (Previously Presented) The system of claim 13, wherein the instructions for controlling a coherent electromagnetic radiation source include instructions for controlling one of a laser, a continuous wave laser, a pulsed laser, and an argon laser to heat the at least one layer.